

CLAIMS

What is claimed is:

1. A system for increasing pilot situational awareness, comprising:
 - a navigational component that determines one or more of an aircraft location and attitude;
 - a scene generator that produces one or more virtual images of the space into which the aircraft is flying based, at least in part, on the aircraft location and/or attitude; and
 - one or more head up displays that display the one or more virtual images to facilitate increasing pilot situational awareness.
2. A method for mitigating problems associated with spatial disorientation, comprising:
 - computing an aircraft location and attitude;
 - computing a displayable image of the space into which the aircraft is flying based, at least in part, on the aircraft location and attitude; and
 - displaying the image onto one or more head up displays.
3. An enhanced head up display, comprising:
 - a navigational unit for determining an aircraft location;
 - an attitude unit for determining an aircraft attitude;
 - an image generator for generating one or more first virtual images associated with one or more over-the-nose views and one or more second virtual images associated with one or more out-the-side-window views, where the first and second virtual images are generated, at least in part, based on the aircraft location and aircraft attitude;
 - a first head up display for displaying the one or more first virtual images; and
 - one or more second head up displays for displaying the one or more second virtual images.